

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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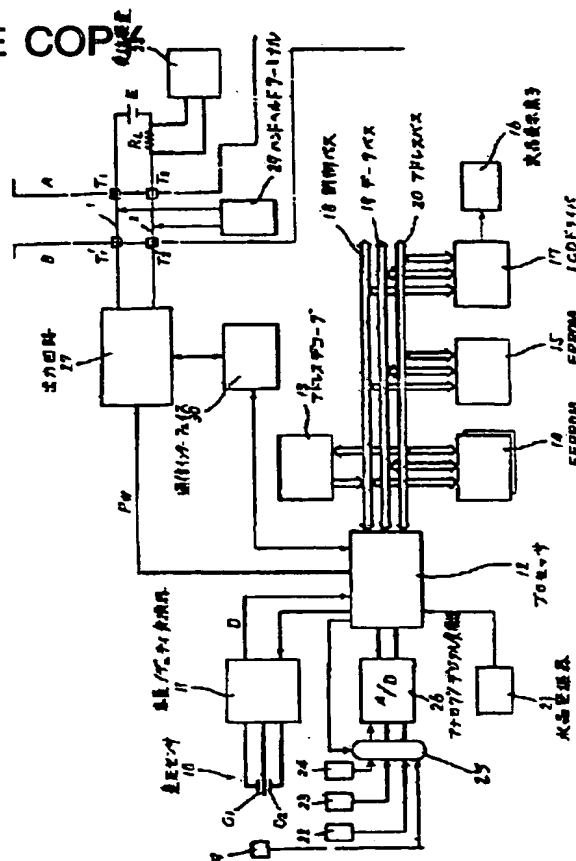
APPLICATION DATE : 22-07-92  
APPLICATION NUMBER : 04195488

APPLICANT : YOKOGAWA ELECTRIC CORP;

INVENTOR : HORIO YASUAKI;

INT.CL. : G01D 21/00 G08B 21/00 G08C 15/00

TITLE : SIGNAL TRANSMITTER



ABSTRACT : PURPOSE: To devise a provision to prevent the failure of an electronic component for improving reliability by using the acceleration factor of component life, input history data and working hours, and predicting the component life by means of a microprocessor.

CONSTITUTION: The displacement by differential pressure pressed to a moving electrode is converted 11 from capacity to duty by way of a differential pressure sensor 10. A temperature sensor 22, a humidity sensor 23 and a vibration sensor 24 convert environmental variables to electric signals and they are A/D converted 26 together with the static pressure signal from a static pressure sensor 9 to be input to a processor 12. In a memory 14, input history, working hours, etc., of each sensor 9, 10, 22, 23 and 24 are stored. In a memory 15, output correction factor for pressure and temperature and the acceleration factor of component life determined by performing acceleration tests in advance are stored. Under the control of processor 12, an alarm is generated when a specific time prior to the life time estimated from the working hours is reached.

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## SEARCH FOR PATENT ABSTRACT OF JAPAN

### FILE SEARCHED:

File 347:JAPIO Oct 1976-2003/Mar(Updated 030703)

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\*File 347: JAPIO data problems with year 2000 records are now fixed.  
Alerts have been run. See HELP NEWS 347 for details.

### RESULTS:

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04399086 \*\*Image available\*\*  
SIGNAL TRANSMITTER

PUB. NO.: 06-042986 [ JP 6042986 A]

PUBLISHED: February 18, 1994 (19940218)

INVENTOR(s): HASEGAWA MASAHIRO

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HORIO YASUAKI

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APPL. NO.: 04-195488 [JP 92195488]

FILED: July 22, 1992 (19920722)

INTL CLASS: [5] G01D-021/00; G08B-021/00; G08C-015/00

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### ABSTRACT

PURPOSE: To devise a provision to prevent the failure of an electronic component for improving reliability by using the acceleration factor of component life, input history data and working hours, and predicting the component life by means of a microprocessor.

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